IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:

Nemerow et al.

Serial No.:

09/903,327

Filed:

July 10, 2001

Customer No.:

24961

Confirmation No.:

7374

For:

BIFUNCTIONAL MOLECULES AND VECTORS COMPLEXED THEREWITH

FOR TARGETED GENE DELIVERY

Art Unit:

1632

Examiner:

Wehbe, A.M.S.

TRANSMITTAL LETTER

Commissioner for Patents U.S. Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450

Dear Sir:

Transmitted herewith via hand delivery are a Supplemental Information Disclosure Statement, Form PTO-1449 (3 Pages) and cited references for filing in connection with the above-identified application.

(X) The Commissioner is hereby authorized to charge the fee for the Information Disclosure Statement and any other fees that may be due under 37 C.F.R. §§1.16-1.17 in connection with this paper or with this application during its entire pendency to Deposit Account No. 50-1213. A duplicate of this sheet is enclosed.

Respectfully submitted

HELLER EHRMAN WHITE & McAULIFFE LLP

By:

Stephanie L. Seidman Registration No. 33,779

Dated: October 6, 2003

Attorney Docket No. 22908-1228B

Address all correspondence to:

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SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT IN ACCORDANCE WITH 37 C.F.R. §§ 1.97-1.98

Commissioner for Patents U.S. Patent and Trademark Office P. O. Box 1450 Alexandria, VA 22313-1450

Dear Sir:

Since this Supplemental Information Disclosure Statement is filed after receipt of a first Office Action on the merits for the above-captioned application, the filing fee of \$180.00 is enclosed. If no proper payment is enclosed herewith, as by a check being in the wrong amount, unsigned, post-dated, otherwise improper or informal, or even entirely missing, the Commissioner is authorized to charge the unpaid amount to Deposit Account No. 50-1213.

In accordance with the duty of disclosure imposed by 37 C.F.R. §1.56 to inform the Patent Office of all references known by Applicant or Applicant's representative that may be material to the examination of the subject application, Applicant's representative hereby provides this Supplemental Information Disclosure Statement that is prepared in accordance with 37 C.F.R. §§1.97-1.98. The Form PTO-1449 (3 pages) and cited references are provided herewith.

The documents listed on the Form PTO-1449 are in the English language, with the exception of items L and O, which are in the French language. Item L (WO 95/02697) is provided with an English language Derwent abstract (item AE). Item O (WO 95/26409) is provided with a Certified English language translation (item AD). Hence, in accordance with the requirements of 37 C.F.R. §1.98, as amended effective March 16, 1992, no further explanation of the listed items is necessary.

Applicant also makes known to the Examiner the following U.S. and International applications, which are commonly owned and/or have one or more inventors in common:

U.S.S.N. 09/903,327
Nemerow et al.
SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENTA

Filing Date	Docket No.
04/23/03	22908-1227C
04/08/03	22908-1229
03/27/03	22908-1236B
06/11/03	22908-P1237
05/01/03	22908-P1238
03/28/03	22908-P1239
Filing Date	Docket No.
04/08/03	22908-1229PC
01/24/03	22908-1236PC
	04/23/03 04/08/03 03/27/03 06/11/03 05/01/03 03/28/03 Filing Date 04/08/03

Although these documents are made known to the Patent and Trademark Office in compliance with Applicant's duty of disclosure, such disclosure is not to be construed as an admission by Applicant or Applicant's representative that any of the references, singly or in any combination thereof, is effective as prior art against the subject application. In accordance with 37 C.F.R. §1.97(h), the filing of this Supplemental Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as defined in 37 C.F.R. §1.56(b) exists.

* * *

Applicant respectfully requests that the Examiner review the foregoing references and information and that they be made of record in the file history of the above-captioned application.

Respectfully submitted,

HELLER EHRMANWHITE & MCAULIFFE LLP

By:

Stephanie L. Seidman Registration No. 33,779

Dated: October 6, 2003

Attorney Docket No. 22908-1228B Address all correspondence to:

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			Sheet Lot 3		
FORM PTO-1449	ATTY. DOCKET NO. 22908-1228B	SERIAL NO. 09/903,327	CONFIRM NO. 7374		
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE	APPLICANT NEMEROW et al.	CUSTOMER NO. 24961			
STATEMENT	FILING DATE July 10, 2001	GROUP 1632	0, %		

^{*} If an asterisk is placed beside the reference number, a copy is NOT provided because the reference was previously cited by or submitted to the PTO in a prior application that is identified in the statement and relied upon for an earlier filing date under 35 U.S.C. 120. 37 C.F.R. § 1:98(d).

U.S. PATENT DOCUMENTS

EXAMINER	*D-4				45117								
INITIÂL	*Ref. Code		U	OCUN	MEN I	NUMB	SER		DATE	NAME	CLASS	SUB CLASS	FILING DATE
	Α	5	7	5	0	3	9	6	05/12/98	Yang et al.	435	357	05/08/95
	В	5	7	5	6	0	8	6	05/26/98	McClelland et al.	424	93.2	02/06/96
	С	5	9	2	2	5	7	6	07/13/99	He et al.	435	91.41	02/27/98
	D	5	9	3	5	9	3	5	08/10/99	Connelly et al.	514	44	06/07/95
	E	5	9	6	5	5	4	1	10/12/99	Wickham et al.	514	44	11/28/95
	F	5	9	9	4	1	2	8	11/30/99	Fallaux et al.	435	325	03/25/97
	G	5	9	9	8	2	0	5	12/07/99	Hallenbeck et al.	435	325	07/01/97
	Н	6	0	3	3	9	0	8	03/07/00	Bout et al.	435	325	07/15/97
	1	6	0	5	7	1	5	5	05/02/00	Wickham et al.	435	325	08/06/98

FOREIGN PATENT DOCUMENTS

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EXAMINER INITIAL	*Ref. Code		D	OCUN	MENT	NUME	BER		DATE	COUNTRY	CLASS	SUB CLASS	Tran Yes	slation No
	J	9	4	1	7	8	3	2	08/18/94	РСТ				
	К	9	5	0	0	6	5	5	01/05/95	РСТ				
	L	9	5	0	2	6	9	7	01/26/95	PCT				X +
	М	9	5	0	5	2	0	1	02/23/95	PCT				
	N	9	5	1	1	9	8	4	05/04/95	PCT				
	0	.9	5	2	6	4	0	9	10/05/95	PCT			X +	
	Р	9	5	2	6	4	1	2	10/05/95	РСТ				
	Q	9	5	2	7	0	7	1	10/12/95	РСТ				

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Title: BIFUNCTIONAL MOLECULES AND VECTORS COMPLEXED THEREWITH FOR TARGETED GENE DELIVERY

⁺ Derwent English language abstract and/or English translation provided.

			Sheet 2 of 3	
FORM PTO-1449	ATTY. DOCKET NO. 22908-1228B	SERIAL NO. 09/903,327	CONFIRM NO. 7374	
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE	APPLICANT NEMEROW et al.	CUSTOMER NO. 24961		
STATEMENT	FILING DATE July 10, 2001	GROUP 1632		

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FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	*Ref. Code		DOCUMENT NUMBER							COUNTRY	CLASS	SUB CLASS	Translation Yes N
	R	9	6	1	4	0	6	1	05/17/96	PCT			
	S	9	6	1	7	0	5	3	06/06/96	РСТ			
	Т	9	6	1	8	4	1	8	06/20/96	РСТ			
	U	9	6	3	9	5	3	0	12/12/96	РСТ			
	V	9	7	2	1	8	2	6	06/19/97	PCT			
	W	9	8	1	7	7	8	3	04/30/98	РСТ			
	Х	9	8	2	2	6	0	9	05/28/98	PCT			
	Υ	9	8	4	4	1	2	1	10/08/98	РСТ			
	Z	9	8	5	0	0	5	3	11/12/98	РСТ			
	AA	9	8	5	4	3	4	6	12/03/98	РСТ			
	AB	9	9	2	5	8	6	0	05/27/99	PCT			_
	AC	9	9	3	6	5	4	5	07/22/99	PCT			

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	Tages, Etc.)
AD	Certified English Translation of PCT Application No. WO 95/26409, "Recombinant adenoviruses coding for basic fibroblast growth factors (bFGF)"
AE	DERWENT #010166087, WPI Acc. No.: 1995-067340/199509 for Patent No. WO 9502697, "New defective recombinant adenovirus for gene therapy - contains inverted terminal repeats, encapsidation sequence and heterologous DNA, also cell lines able to complement the virus defect"
AF	Gall et al., "Adenovirus type 5 and 7 capsid chimera: fiber replacement alters receptor tropism without affecting primary immune neutralization epitopes", J. Viorl. 70(4):2116 2123 (1996)

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FORM PTO-1449 ATTY. DOCKET NO. SERIAL NO. CONFIRM NO. 22908-1228B 09/903,327 7374 LIST OF PATENTS AND PUBLICATIONS FOR **APPLICANT** CUSTOMER NO. APPLICANT'S INFORMATION DISCLOSURE NEMEROW et al. 24961 STATEMENT FILING DATE **GROUP** July 10, 2001 1632

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

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Mathias et al., "Multiple adenovirus serotypes use av integrins for infection" J. Virol. 68(10):6811-6814 (1994)
Michael et al., "Addition of a short peptide ligand to the adenovirus fiber protein", Gene Ther. 2:660-668 (1995)
Roelvink et al., "Identification of a conserved receptor-binding site on the fiber proteins of CAR-recognizing adenoviridae", Science 286:1568-1571 (1999)
Stevenson et al., "Human adenovirus serotypes 3 and 5 bind to two different cellular receptors via the fiber head domain", J. Virol. 69(5):2850-2857 (1995)
Stevenson et al., "Selective targeting of human cells by a chimeric adenovirus vector conaining a modified fiber protein", J. Virol. 71(6):4782-4790 (1997)

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